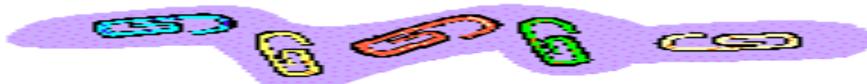


# 2014 ASCLS-WASHINGTON SPRING SEMINAR



Spokane Convention Center  
Spokane, WA  
April 24 - 26, 2014



## SPONSORS



The 2014 ASCLS-WA Spring Seminar would like to extend its sincere thanks for the following companies for their support.

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Quest Diagnostics

Seattle Society for Clinical Laboratory Science

Spokane Society for Clinical Laboratory Science

Siemens Healthcare Diagnostics

Washington State Department of Health, Laboratory Quality Assurance

Washington State Patrol Crime Laboratory

## 2014 Spring Seminar At A Glance

<b>Thursday April 24, 2014</b>	AM	1	2	3	4
		Mysterious Coagulation Results	Celiac  ANA	Antibiotic Resistance & Respiratory Pathogens	Introduction to Clinical Mass Spectrometry
	PM	5	6	7	8
		Flow Cytometry	Data Management in the HLA Laboratory Umbilical Cord Blood Transplants HLA Testing for Organ Transplants	Acid-Base Balance	HRT Update
<b>Friday April 25, 2014</b>	AM	9	10	11	12
		Intermediate QA  IQCP	Cases in Transfusion Service How Safe is a Blood Transfusion Remote Storage and Is- sue of Blood Products	Environmental Toxicology	Multiple Gestation and PUBS
	PM	13	14	15	16
		Enteric Pathogens Diagnostic Options  Syphilis Diagnostics	Preparing for a Leadership Role	Laboratory Diagnosis of Red Cell Disorders	Vitamin D Testing and Anti-CCP Testing  Clinical Utility of Cardiac Troponin
<b>Saturday April 26, 2014</b>	AM	17	18	19	20
		Lab's Compliance & HIPAA/HITECH Program	Where Would You Like To Go In Your Career?	Stool Fixation and Pres- ervation	Body Fluid Facts
	PM	21	22	23	
		Forensic Sciences	High Value Pathology, Informatics and the Role of the Medi Tech	Lean in the Clinical Laboratory	

# Welcome to the 2014 ASCLS-Washington Spring Seminar

Here is some important information that you need to know!

## To Register by Mail:

Complete the registration form and mail the registration form and check payable to

“Spring Seminar” to:

Brenda Kochis  
ASCLS-WA Spring Seminar  
44 West 26th Avenue  
Spokane, WA 99203-1818

If questions:

Contact: [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net)  
(email contact is preferred)  
Phone: 509-939-8445 (leave message)

- » **Registration mail postmark by date: April 7 2014.** This assures that your form will be delivered in time for us to provide you with the handout access information.

## To Register Online:

Go to [www.asclswa.org](http://www.asclswa.org) and click on the Spring Seminar tab. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by **April 18, 2014** to receive lunch if eligible.

## Special Member Registration Rates

Any person currently a member in good standing of the following organizations can qualify for special member registration rates for this meeting:

- AABB (American Association of Blood Banks)
- AACC (American Association for Clinical Chemistry)
- ASC (American Society of Cytology)
- ASCP (American Society of Clinical Pathologists)  
Laboratory Professional Membership Category

**NOTE: Certification only through ASCP does NOT qualify you for “Special Member” rates.**

- ASCT (American Society for Cytotechnology)
- ASH (American Society of Hematology)
- ASM (American Society of Microbiology)
- CLMA (Clinical Laboratory Management Association)

## Student Registration

If you are a student in one of the Washington Clinical Laboratory Science education programs listed below, you may register for **one session at NO CHARGE** courtesy of ASCLS-Washington. See your Program Director for more information about this offer and for help in registering for the 2014 ASCLS-WA Spring Meeting.

Washington Clinical Laboratory Science Educational Programs:

- Clover Park Technical College MLT Program
- Heritage University CLS Program
- Providence Sacred Heart Medical Center MT Program
- Renton Technical College MLT Program
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

## Handouts ONLY Available On-line

To keep registration rates as low as possible, the Spring Seminar no longer provides paper copies of the session handouts at the meeting. Session handouts will be available for download at the ASCLS-WA website, <http://www.asclswa.org>. Click on the “Spring Seminar” tab. Remember to print copies of the handouts for the sessions you registered for and bring them to the meeting with you. If you are having problems downloading a handout, please contact Brenda Kochis, [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net). Handouts for the sessions will be available on the ASCLS-WA website approximately 2 weeks prior to the meeting in a password protected area. You will receive the “password” and instructions on how to print the handouts starting approximately 2 weeks before the meeting. The email will be from [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net), so watch for it. Register early so that you can print the handout material for your sessions.

## Spring Seminar Committee

General Chair	Margie Vaccaro
Program	Margie Vaccaro Leah Daly Cynthia Hamby Shawna Martin Cassie Miller
Registration	Brenda Kochis Leah Daly Lensa Etna
Program Design	Brenda Kochis
Finance	Shawna Martin
Moderators	Gayle May
Hospitality	Lisa Stolte
Sponsors	Margie Vaccaro
Webmaster	Brenda Kochis

## ASCLS-Washington

Region IX Director	Shellie Smith
President	Sigrd Redmond
President Elect	Terese Abreu
Secretary	Mi-Lim Kim
Treasurer	Shawna Martin
Past President	Donna Reinbold Molly Morse

ASCLS-WA Board Meeting and House of Delegates  
Friday, April 25, 2014, 5:00 PM

## Northwest State Society of the American Medical Technologists

President	Jo Abraham
Secretary	Linda Wilkins
Treasurer	Roxanne Erskine

NWSSAMT Board Meeting and Business Meeting  
Friday, April 25, 2014, 5:00 PM

## Session Information

Registration Hours  
7:30 AM - 8:30 AM  
12:30 PM - 1:15 PM

Scientific Session  
8:30 AM - 11:45 AM  
1:15 PM - 4:30 PM

Coffee Breaks  
10:00 AM - 10:15 AM  
2:45 PM - 3:00 PM

**Lunch** is from 12:00 - 1:00 PM each day. Individuals pre-registered for **an AM and a PM session on the same day** will be provided lunch. Lunch cannot be guaranteed for onsite registrants.

**Name Badges** are required for entrance to all sessions.

**Smoking:** There is no smoking during the sessions or in the Convention Center..

**Dress:** Casual business dress is appropriate.

**Cell Phones/Pagers:** As a courtesy to the speakers and registrants, all cell phones and pagers must be turned off during the sessions.

**Meeting Room Assignments:** The meeting room assignments will be printed on the session sheet in your registration packet. The sessions are located down the hall from the registration desk and lobby area.

## Session Accreditations

P.A.C.E.® and AMTrax credits have been approved for all appropriate sessions.

ASCLS-WA is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® program. Additionally, ASCLS-WA is approved as a provider for California clinical laboratory licensees under P.A.C.E.® California accrediting agency license number 0001. ASCLS-WA will be using CE Organizer for documentation of continuing education credits. Please make note of the P.A.C.E.® number and the session number that will be given to attendees in each session after the session break. Without this information, the attendee will not be able to obtain their electronic certificate.

NWSSAMT is the approved provider for AMTrax CECs and insures that these educational presentations conform to standards established by AMT.

# Spokane Convention Center



## Spokane Convention Center

334 West Spokane Falls Blvd  
Spokane, WA 99201

Phone: 509-279-7000

Website: [www.spokanecenter.com](http://www.spokanecenter.com)

The Spokane Convention Center sits on the bank of the Spokane River, adjacent to 100-acre Riverfront Park in the heart of downtown Spokane, yet it is within walking distance to fine dining, exquisite hotels and a wide variety of shopping and entertainment.

There are a variety of choices for parking around the INB Performing Arts Center and the Spokane Convention Center. The most convenient option is our covered parking garage, situated below the Exhibit Halls. Entrance to this lot is located on West Spokane Falls Boulevard and is the same lot used for the DoubleTree Hotel. A map of alternate parking locations are available on the website and may be downloaded and printed.

## DIRECTIONS from I90:

From I-90 take Division St. (Newport/Colville) Exit 281. Off ramp turns into northbound Division St.

Continue north to Spokane Falls Boulevard, turn left onto Spokane Falls Boulevard.

Just after the next light, turn right onto Spokane Falls Court. The parking garage is under the Exhibit Halls.



# Travelodge at the Convention Center (soon to be Best Western Plus)



## Hotel Information

Special group rates are available at the Travelodge at the Convention Center

***April 11, 2014.***

After that date, room rates will be at the discretion of the hotel. When making your reservations by telephone (509-623-9727), please mention that you are with ASCLS

## **DIRECTIONS from I90:**

Take Exit 281, and go north on Division St for 8 blocks.

Turn west (left) onto Spokane Falls Blvd, and we're ½ a block down on your left – a big grey, blue, and white building with our sign out front on the corner.

Anyone who is flying in can get a flat rate from the airport using Arrow Cab. Contact them at 509-458-5555. They offer a flat rate from the airport to the Travelodge.

## **Travelodge at the Convention Center (soon to be Best Western Plus)**

33 West Spokane Fall Blvd  
Spokane, WA 99201  
Phone: 509-623-9727

Website:

[www.spokanetravelodge.com/index.htm](http://www.spokanetravelodge.com/index.htm)

The Hotel will honor the following overnight room rates:

\$99.00

Hotel room rates are subject to applicable state and local taxes.

**Reservations:** Call the hotel at 509-623-9727. You must request the ASCLS group rate to obtain the listed room rate. The group rate will be honored until April 11, 2014.

There is no charge for parking at the Travelodge at the Convention Center. It is located across the street from the Convention Center, an easy walk.

**Session  
1**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Coagulation Results: Investigations and Solutions**

A case-based approach to unusual coagulation results will be used in this course. We will discuss causes of results that just don't make sense in light of what is known about the patient, and explain actions and improvements that can be made in the laboratory to overcome these spurious results. The cases covered will include preanalytical problems, assay sensitivity, method interferences, interpretive mistakes, and anticoagulation therapy, both common and new agents.

Objectives:

- ✓ Identify specimen collection and processing errors that can lead to erroneous coagulation results,
- ✓ Recognize incorrect coagulation results due to assay interferences and sensitivity, and
- ✓ Describe the effect anticoagulants have on coagulation assay results and how to best detect these drugs.

**KAREN BURNS, CLS, MT(ASCP)**

Senior Technical Sales Representative - Great Northwest  
Hemostasis  
Werfen/Instrumentation Laboratory  
Bedford, MA

**Sponsor: Instrumentation Laboratory**

**Session  
2**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Celiac: The Great Chameleon & ANA: Not Just For the Darkroom Anymore**

This seminar discusses the basics of immunology (antibodies, antigens, and testing techniques) and the use of antibody profiles to aid in the diagnosis of celiac disease, gluten enteropathies and systemic rheumatic diseases (including rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), systemic sclerosis (SSc), Sjögren's Syndrome (SS), and polymyositis/dermatomyositis (PM/DM). Both laboratory and clinical findings are presented so that the laboratorian can understand the disease, diagnostic process and treatment. A discussion of the various techniques used in identification of antibodies seen in each disease includes a look at assays used in the past, present and those that are just on the market.

Objectives:

- ✓ Describe Celiac disease and gluten enteropathies and how the laboratory can aid in diagnosis and disease monitoring,
- ✓ Describe systemic rheumatic diseases and how the laboratory can aid in diagnosis and disease monitoring, and
- ✓ Discuss the advantages and disadvantages of the various testing techniques used in identification of antibodies seen in each disease

**CARL SCHRODER, MT(ASCP), MPA**

IFA Technical Sales Manager  
INOVA Diagnostics  
San Diego, CA

**Sponsor: INOVA Diagnostics**

**Session  
3**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Antibiotic Resistance & Respiratory Pathogens:  
The Case for Test - Target - Treat**

Antibiotic resistance is one of the greatest medical crises facing the global population. However, many medical professionals treat patients based on symptoms rather than identify the particular respiratory pathogen and tailor treatment accordingly. This session will discuss the etiological agents involved in pneumonia and the diagnostic options currently available. There are also current papers now showing how influenza can predispose people to a subsequent pneumococcal infection.

Objectives:

- ✓ Describe the significance of antibiotic resistance and how bacteria become resistant,
- ✓ Describe the etiological agents for pneumonia and the diagnostic tests available, and
- ✓ Describe the biological mechanisms how influenza can cause a subsequent pneumonia.

**NORMAN MOORE, PhD**

Director of Scientific Affairs, Infectious Diseases  
Alere  
Scarborough, ME

**Sponsor: Alere**

**Session  
4**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Introduction to Clinical Mass Spectrometry**

This course was developed to provide participants with the opportunity to increase their knowledge of liquid chromatography tandem mass spectrometry (LC-MS/MS) and its use in the clinical setting. Attendees will be provided with a general overview of the instrumentation and a synopsis of how LC-MS/MS is being used in the laboratory. Finally, future roles of mass spectrometry in the clinical laboratory will be described.

Objectives:

- ✓ Discuss the concept of HPLC (high performance liquid chromatography),
- ✓ Describe the concept of Mass Spectrometry and the Clinical Applications for LC-MS/MS, and
- ✓ Describe the future for Mass Spectrometry in the Clinical Lab.

**CARISSA SCHMITZ, MLS, (ASCP)<sup>CM</sup>**

**CATHERINE PAIGE RILEY**  
R&D Separation Scientist  
PAML

**Thursday, April 24, 2014**

**Session  
5**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Flow Cytometry: Making Sense Out of All the Fluorescence**

Flow cytometry is a tool used to understand and help diagnose malignancies and disorders. In this session, we will explore basic design of flow cytometers, identify which markers are used to help us diagnose and understand anomalies, and recognize how cytometry is used to analyze immune status in cancer and other unusual hematologic and non-hematologic deviations.

**Objectives:**

- ✓ Describe the basic design of a flow cytometer,
- ✓ Describe how flow is used to differentiate diagnosis between different lymphomas and leukemias, and
- ✓ Describe how we establish normal from abnormal patterns using flow cytometry.

**DAVE OSBORN, MT(ASCP)**

Senior Account Manager, Flow Cytometry  
Beckman Coulter  
Lake Stevens, WA

**Sponsor: Beckman Coulter**

**Student Poster Session**

A student poster session will be held for the first time as a part of the ASCLS-WA Spring Seminar!! Come and support our future laboratory professionals by visiting the poster presentations during the meeting. PACE credits will be available to those that visit the student poster session and successfully complete an exam about the posters. This is a great way to get continuing education credits and support our students!

There is no charge to attend the poster session.

Check the ASCLS-WA website for more information about the poster topics.



**Session  
6**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Data Management in the HLA Laboratory**

Data management has become an essential component of testing in the HLA Laboratory. This session will discuss systems our laboratory uses in order to accurately and reliably transfer data within the lab and outside of the lab.

Objectives:

- ✓ Describe the complexity of data that testing in the HLA laboratory generates,
- ✓ Discuss the number of different systems that need to communicate with one another when supporting a solid organ transplant program, and
- ✓ Outline how proper data management can help to reduce errors and improve efficiency in the lab.

**STEPHANIE SKIBBY, MS, CHS**

Certified Histocompatibility Specialist  
Inland Northwest Blood Center

**Umbilical Cord Blood Transplants**

Hematopoietic stem cell transplants have been used since 1968 to treat life-threatening diseases such as leukemia and lymphoma. However, success depends upon the availability of a suitably HLA matched hematopoietic stem cell donor. Thirty percent of patients have an HLA identical sibling, but the remaining 70% of patients must rely on the generosity of strangers who are willing to anonymously donate their healthy hematopoietic stem cells to someone in need. Most patients find an HLA matched donor on The National Marrow Donor Program's Be The Match registry of more than 10 million potential adult donors. However, patients with rare HLA types who do not have a matched adult donor can now search the registry's inventory of more than 185,000 umbilical cord blood units. This session will describe the importance and the difficulty of HLA matching in hematopoietic stem cell transplant, and how umbilical cord blood stem cells are used to address the problem.

Objectives:

- ✓ Describe HLA polymorphism, its role in immune recognition and the difficulty in finding suitable matches for patients with rare HLA types who need hematopoietic stem cell transplants,
- ✓ List the unique characteristics of umbilical cord blood stem cells that make cord blood a useful source of donor cells for hematopoietic stem cell transplants, and
- ✓ Define strategies to overcome the disadvantages of umbilical cord blood as a source of donor cells for hematopoietic stem cell transplants.

**ELLEN KLOHE, PHD**

HLA Laboratory Director  
Inland Northwest Blood Center

**HLA Testing for Organ Transplants**

Learn about Human Leukocyte Antigen typing, also known as "tissue typing," which is performed on organ donors and potential transplant candidates. Understand the three main laboratory tests - HLA typing, antibody testing, and crossmatching - that predict organ transplant compatibility.

Objectives:

- ✓ Explain the 3 categories of HLA testing that are performed on all patients who are on the waiting list for organ transplants: HLA typing, antibody testing, and crossmatching,
- ✓ Discuss the timeline and HLA testing for a deceased organ donors, and
- ✓ Describe how HLA testing fits into the larger picture of an organ donor case and organ allocation within the Northwest region.

**RUBY SIEGEL, MS, CHS**

Certified Histocompatibility Specialist  
Inland Northwest Blood Center  
Spokane, WA

**Sponsor: Inland Northwest Blood Center**

**Session  
7**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Acid-Base Balance: The Great Equilibrium**

The most valuable tool for a clinician in evaluating a patient's acid base balance is an arterial blood gas. The correlation of ABG data allows the clinician to ascertain abnormalities present and the most logical treatment warranted to enhance the patient's physiologic condition. This session will review the hematologic and biochemical aspects of acid-base balance as a function of homeostasis and will conclude with the practical application and evaluation of arterial blood gases in an interactive exercise.

Objectives:

- ✓ Describe the Henderson-Hasselbalch equation with regard to the relationship between pH, CO<sub>2</sub> and HCO<sub>3</sub><sup>-</sup>,
- ✓ Correlate the effects of O<sub>2</sub> on acid-base physiology, and
- ✓ Evaluate the clinical state of a patient as related to the indices within an ABG.

**JIM HAMBY, MT(ASCP), CCP**

Chief Perfusionist  
Providence Sacred Heart Medical Center  
Spokane, WA

**Session  
8**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**HRT Update: New Data, New Perspectives**

HRT has been a controversial topic since the WHI findings were published in 2002. But it is now apparent that important differences between synthetic and bioidentical hormones were not clearly differentiated at that time. In addition, more recent studies are showing added benefits in the important areas of cardiovascular, nervous system health, and cancer protection for menopausal women. This presentation will clarify old issues and review these new findings.

Objectives:

- ✓ Describe the biochemical actions of hormones at different stages of life,
- ✓ List the important differences between synthetic and bioidentical hormones, and
- ✓ Describe the health risks associated with hormone depletion and appropriate strategies for maintaining hormone balance and therefore health throughout life.

**JOANNE M. HILLARY, PhD, ND (NATUROPATHIC PHYSICIAN)**

Hillary's Health  
Spokane, WA

***Have you visited the student poster sessions yet? If not, plan to spend some time there tomorrow***

**Session  
9**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Part 1: Intermediate QA**

**Part 2: IQCP- Coming to a Lab Near You!**

The first half of this session will discuss Quality Assurance at an intermediate level. The seminar will include review of Quality Control and Proficiency Testing, Corrective Action documentation, performance of retrospective studies, and other intermediate QA activities. Basic knowledge of statistics is required, such as SD, CV, and SDI. The second half of this session will describe the rules and implementation for an Individualized Quality Control Plan that replaces EQC on January 1, 2016.

Objectives:

- ✓ Discuss Quality Assurance activities,
- ✓ Discuss how and when to perform a retrospective study of patient results, and
- ✓ Describe the new IQCP rules and how they will affect your laboratory.

**LORI ESCHENBACHER, BSMT(ASCP) CLS(NCA)**

Laboratory Surveyor and Consultant  
Washington State Department of Health, Laboratory Quality Assurance  
Spokane, WA

**Sponsor: Washington State Department of Health**



**Handouts**

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**Session  
10**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Serologic Challenges: Recent Interesting Cases in the Transfusion Service**

We will present a series of recent, challenging patient cases and how we resolved serologic problems that arose.

Objectives:

- ✓ Recognize a discrepant finding and suggest preliminary problem-resolution steps based on initial observations,
- ✓ Evaluate further testing as it is performed, and draw conclusions from test results and patient history, and
- ✓ Recommend strategies for selection of blood products for transfusion.

**MICHELLE PALK, MT(ASCP), SBB(ASCP)<sup>CM</sup>**

Laboratory Services Training and Process Improvement Manager  
Inland Northwest Blood Center  
Spokane, WA

**How Safe is a Blood Transfusion?**

A historical perspective of the safety of transfusing blood and blood components will open this session, looking at the impact of war on advancing transfusion safety. The session will end with a review of the risks of modern transfusion practices.

Objectives:

- ✓ Describe the history of modern blood transfusion practices,
- ✓ Detail the impacts of war on advancing safety in blood transfusions, and
- ✓ Identify the risks of modern transfusion practices.

**STEVEN E. ALLEN, MS, MT(ASCP)SBB, CLS(NCA)**

Laboratory Services Director  
Inland Northwest Blood Center  
Spokane, WA

**Remote Storage and Issue of Blood Products from a Centralized Transfusion Service**

Centralized Transfusion Services provide increased efficiency by consolidating resources but create additional challenges for blood component distribution. Use of remote storage devices with the capacity for remote electronic crossmatch and issue alleviates these distribution problems. Increased patient safety, improved crossmatch to transfusion ratios, and improved inventory management can also be achieved with these systems.

Objectives:

- ✓ Describe the use of remote storage devices for issuing blood components with a Centralized Transfusion Service,
- ✓ List the limitations of issuing blood components from remote storage, and
- ✓ Describe how the use of remote storage devices can improve inventory management and patient safety.

**STEVEN B McCORMICK, MBA, MT(ASCP)SBB**

Manufacturing Process Specialist  
Blood Systems, Inc  
Scottsdale, AZ

**Sponsor: Inland Northwest Blood Center**

**Session  
11**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Environmental Toxicology - It's Out to Get You**

The medical laboratory is often faced with identifying toxins, usual and abnormal, that have a detrimental effect on our health. This seminar will reveal many historical environmental toxins that threatened our health in the past as well as some threats that may be new to us. I will draw on my knowledge of both routine clinical testing for environmental toxins as well as the cytopathology that results from common environmental pollutants.

Objectives:

- ✓ Discuss the impact, throughout history, of common, and some uncommon, environmental toxins in our environment,
- ✓ Describe common laboratory means for the identification of environmental toxins, and
- ✓ Describe the physiological affect of certain toxins on the human body.

**JOHN ELLIOTT BRIGGS, BS, MT, CT(ASCP)**

Technical Operations Manager,  
Pathology Associates Medical Laboratories  
Spokane, WA

**Session  
12**

8:30 - 11:45 am  
Advanced  
3 contact hours

**Multiple Gestation and PUBS**

In this session we will cover fetal ultrasonography for multiple gestation, looking at pathological conditions. We will also cover the techniques of percutaneous umbilical blood sampling and intrauterine transfusion.

Objectives:

- ✓ Recognize challenges of fetal ultrasonography in the setting of multiple gestation,
- ✓ Review common pathological conditions associated with multiple gestation, and
- ✓ Describe basic techniques of PUBS/IUT.

**GABOR C. MEZEI, MD, PhD**

Perinatologist  
Providence Sacred Heart Medical Center  
Spokane, WA



**13**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Much Ado About Poo: Enteric Pathogens & Diagnostic Options Available**

**The Current Status of Syphilis Diagnostics**

The first portion of the program will focus on enteric pathogens. There are an estimated 211-275 million cases of diarrhea per year in the US with 1.8 million hospitalizations and 3100 deaths. In total, it costs the US healthcare around \$25 billion. A number of etiological agents are responsible from parasites to bacteria to viruses. Therapies can change depending on the diagnosis.

Syphilis is caused by the bacterium *Treponema pallidum*. It is known as "The Great Masquerader" because the signs and symptoms are often indistinguishable from other diseases. After decades of falling number of cases in the US, there has been a recent resurgence. The US Preventative Task Force recommends pregnant women, men who have sex with men (MSM), commercial sex workers, persons in adult correctional facilities, and persons who exchange sex for drugs to be tested for syphilis.

Objectives:

- ✓ Discuss the health impacts of diarrhea in the US along with the etiological agents responsible,
- ✓ Discuss the diagnostic options and how they can effect patient therapy, and
- ✓ Describe the signs/symptoms of syphilis and the diagnostic options available.

**NORMAN MOORE, PhD**

Director of Scientific Affairs, Infectious Diseases  
Alere  
Scarborough, ME

**Sponsor: Alere**

**Session  
14**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Preparing for a Leadership Role - Is It For Me?**

This training course is uniquely designed to help leaders-to-be determine if leadership is for you, and if so, how to then prepare yourself for the challenges and responsibilities when the opportunity arises.

Objectives:

- ✓ Describe the skills necessary for effective leadership,
- ✓ Compare the then and now of making the transition, and
- ✓ Review and assess their own competency level in relationship to leadership responsibilities.

**KAREN RIBA**

Training and Education Manager  
Pathology Associates Medical Laboratories  
Spokane, WA

**Sponsor: Pathology Associates Medical Laboratories**

**Session  
15**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Laboratory Diagnosis of Red Cell Disorders**

This session will provide an overview of the diagnosis of red cell disorders including thalassemias, hemoglobinopathies, and other inherited red cell defects. Included will be the molecular pathology of red cell disorders, the diagnostic techniques used to make diagnoses, and clinical and genetic counseling implications. A number of interesting cases will be presented to illustrate how diagnoses are made.

**Objectives**

- ✓ Describe the pathophysiology of various inherited red cell disorders,
- ✓ Describe the use of various laboratory methodologies in making the diagnosis of red cell disorders, and
- ✓ Determine the clinical implications of various red cell disorders.

**DANIEL E. SABATH, MD, PhD**

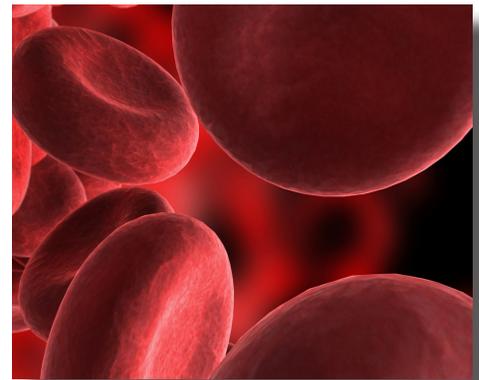
Associate Professor and Hematology Division Head  
Department of Laboratory Medicine  
University of Washington School of Medicine  
Seattle, WA

**Student Poster Session**

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**Session  
16**

1:15 - 4:30 pm  
Intermediate  
3 contact hours

**Vitamin D Testing-A New Beginning and  
Anti-CCP Testing in Rheumatoid Arthritis**

The last decade has seen a dramatic rise in Vitamin D testing, given the relevance of Vitamin D levels to a broad range of disease states that includes cardiac and autoimmune disease as well as bone health. Until recently, lack of a common standard has complicated interpretation of Vitamin D testing results and created confusion when comparing results from differing manufacturer's assays. This session will discuss the physiologic role of Vitamin D and address the Vitamin D Standardization Program (VDSP) that is facilitating harmonization of assay results.

Rheumatoid arthritis (RA) is a potentially devastating disease that is often diagnosed too late to allow optimization of therapy. Testing for anti-Cyclic Citrullinated Peptide (anti-CCP) antibodies may allow for a more timely and accurate diagnosis. This session will review the value of testing for anti-CCP in patients where RA is suspected.

Objectives:

- ✓ Describe the differing forms of Vitamin D and their relevance to clinical interpretation,
- ✓ Describe the purpose and role of the VDSP for the reporting of clinically relevant results, and
- ✓ Describe the value for anti-CCP testing in the diagnosis of RA.

**KATHERINE SORENG, PhD**

Associate Director, Clinical and Scientific Marketing  
Siemens Healthcare Diagnostics  
Clarkston, GA

**Clinical Utility of Cardiac Troponin**

The diagnosis of acute myocardial infarction (MI) poses a challenge for clinicians, particularly in the absence of clear electrocardiographic (EKG) evidence. In 2000, a consensus conference of experts redefined MI on the basis of cardiac biomarkers, with cardiac troponin (cTn) proposed as the preferred test. Recognizing that any detectable cardiac troponin is abnormal, the ESC and ACC selected a highly sensitive cut-point that significantly lowered the value previously advocated by WHO. In 2007, the NACB released similar guidelines, also adopting a new low cut-point for cTn for the diagnosis of an MI. Updated guidelines focus on functional sensitivity around this cut-point while conversations are trending towards the detection of lower levels of troponin in a normal population for purposes of risk stratification as well as earlier detection. What does this mean for the future of troponin use to the central lab? This seminar reviews the utility of cTn for diagnosis of a patient presenting with suspected ischemia. In addition, the most recent cut-points, clinical interpretation, and significance of elevated cTn are reviewed, including non-ischemic causes suggestive of alternate pathologies.

Objectives:

- ✓ Describe the pathology involved in cTn release and how cTn is used to diagnose an AMI in a NSTEMI patient using the most recent guidelines,
- ✓ Describe the relevance of cTn elevations in disease states unrelated to coronary atherosclerosis, and
- ✓ Discuss the most up-to-date changes that are occurring in industry and its practical relevance in application to clinicians.

**MONET N. SAYEGH, MD**

Senior Medical/Clinical Consultant  
Siemens Healthcare Diagnostics  
Tarrytown, NY

**Sponsor: Siemens Healthcare Diagnostics**

**Session  
17**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**How Good is Your Lab's Compliance and HIPAA/HITECH Program?**

This session will give an overview of how/why/when the OIG published the Compliance Program Guidance for Clinical Laboratories and Congress approved the HIPAA Privacy and Security Rules and subsequent HITECH additions to those rules and how they may have changed over the ensuing years. As with all regulations, employee training on those regulations is critical and this session will give some examples of ways to provide new hire orientation training in these areas as well as annual update training and special focus training for high risk departments of the laboratory organization. A means for employees to bring forth concerns, questions or alleged violations is important to a successful Compliance program and various options will be covered. And lastly, measuring the effectiveness of these programs through monitors, checklists, mini-audits, etc. will be described.

**Objectives:**

- ✓ Describe elements of the OIG Compliance Program Guidance for Clinical Laboratories and the HIPAA/HITECH Rules,
- ✓ Discuss how to establish effective Compliance and HIPAA/HITECH training programs for staff and how to handle internal reporting of Compliance or HIPAA-related concerns by employees, and
- ✓ Describe ways to measure the effectiveness of your lab's Compliance and HIPAA/HITECH programs.

**MARGUERITE BUSCH, BS, MT (ASCP), MA**

VP/Chief Compliance Officer and HIPAA Privacy and Security Officer  
PAML & PAML Ventures  
Spokane, WA

**Sponsor: Pathology Associates Medical Laboratories**



**Session  
18**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**Where Would You Like To Go In Your Career?**

Come and listen to a panel of Professionals in the Medical Community talk about their career and how they reached their current position. Maybe this will help you as you grow in your career in this age of an ever changing world of the Medical Field. Each speaker will discuss their current position and what steps they took to get their career launched from a Medical Laboratory Scientist to where they are today. They will offer career path advice for those attending. This is a question and answer session during the second half. Those attending the session should bring their ideas for careers or questions for the speakers to answer about when/where/and what a Medical Laboratory Scientist needs to know to change their career or how to succeed in changing their career from a bench tech to a possible leader/educator/financial career.

Objectives:

- ✓ Describe possible career paths that are achievable,
- ✓ Discuss the educational/training necessary for several career options, and
- ✓ Design a career path.

**CAROLYN HOVDE BOHACH, MT(ASCP), PhD**  
University Distinguished Professor, University of Idaho

**DANA DUZAN, MT(ASCP)**  
Laboratory Director, Providence Sacred Heart Medical Center

**SHAWNA MARTIN MS, MLS(ASCP)<sup>CM</sup>**  
Medical Technologist, Providence Sacred Heart Medical Center

**SHELLEY OVERMAN, MT(ASCP)**  
Capital Equipment Consultant, Beckman Coulter

**SIGRID REYMOND, MLS (ASCP)<sup>CM</sup>**  
ASCLS-WA President

**Handouts**

Handouts are only available online at [www.ascls-wa.org](http://www.ascls-wa.org). Several weeks before the Seminar, Registrants will receive an email from [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net) with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

**Session  
19**

8:30 - 11:45 am  
Advanced  
3 contact hours

**Being Fixated on Permanent Stool Stains: How to be Sane in the Insane World of Stool Fixation and Preservation**

Remember the good ole days of mercuric chloride based PVA stool fixatives? The “gold standard” for the fixation of ova and parasites in the preparation of permanently stained smears of stool specimens has been PVA (polyvinyl alcohol), containing the fixative mercuric chloride. Current regulatory bodies highly discourage the use of mercury based fixatives, so we are left with other alternative preservative/fixative choices. The session will explore the many problems encountered in the laboratory when using the alternative preservative/fixative products. We will then cover solutions to these many problems.

Objectives:

- ✓ Identify the alternative stool preservative products currently on the market,
- ✓ Identify some of the problems encountered when examining permanent stool stains using the currently available stool preservatives, and
- ✓ Identify and hopefully utilize some of the suggested solutions to the problems encountered using alternative stool preservation techniques.

**GERALD HARMON MT(ASCP)**

Manager  
Quest Diagnostics Inc.  
Seattle, WA

**Sponsor: Quest Diagnostics**

**Session  
20**

8:30 - 11:45 am  
Intermediate  
3 contact hours

**BFF-Body Fluid Facts**

This session will review the normal formation of body fluids and examine the mechanisms and clinical significance of abnormal body fluid accumulation. You will remember terms like transudate and exudate. We will look at cells that are normally found in fluids and their clinical significance as we compare them to abnormal and malignant cells.

Objectives:

- ✓ Review the origins and typical results found in normal body fluid specimens,
- ✓ Compare and contrast benign and malignant cells, and
- ✓ Determine clinically significant chemistry and hematology results in body fluid analysis.

**MARY TYLLIA MLS(ASCP)<sup>CM</sup>**

Clinical Instructor,  
Providence Sacred Heart Medical Center and Children’s Hospital

**BETH PAYNE, MT(ASCP)**

Clinical Hematology Instructor  
Providence Sacred Heart Medical Center  
Spokane, WA

# Saturday, April 26, 2014

## Session 21

1:15 - 4:30 pm  
Intermediate  
3 contact hours

### Forensic Sciences - What Do We Do?

This session will provide insight to the real CSI. A brief overview of the different disciplines Forensic Science provides to law enforcement agencies and case scenarios will be discussed.

Objectives:

- ✓ Discuss what Forensic Science is,
- ✓ Discuss the limitations of Forensic Science, and
- ✓ Discuss whether this is a career for me?

**JAYNE AUNAN**

Supervising Forensic Scientist  
Washington State Patrol Crime Laboratory

**Sponsor: Washington State Patrol Crime Laboratory**

## Session 22

1:15 - 4:30 pm  
Intermediate  
3 contact hours

### High Value Pathology, Informatics and the Role of the Medical Technologist

In this session, we will discuss the CAPs High Value Pathology Initiative focusing primarily on deriving value from information generated by the laboratory. We will also discuss the role of the medical technologist in delivering on the value agenda.

Objectives:

- ✓ Describe the CAP High Value Pathology Initiative as defined in the Promising Pathways,
- ✓ Discuss informatics-enabled value generation strategies such as data analytics, test utilization management, risk assessment and clinical algorithm development, and
- ✓ Describe potential roles medical technologists can have in designing, developing, leading and delivering on these initiatives.

**RICKY GRISSON, II MD, MBA, MPH**

Chief of Clinical Chemistry and Toxicology  
VA Puget Sound Healthcare System

## Session 23

1:15 - 4:30 pm  
Intermediate  
3 contact hours

### Lean in the Clinical Laboratory

This session will be an introduction and discussion of lean in the clinical laboratory. Six Sigma will be main topic of discussion. We will discuss its applications in the clinical laboratory, specifically in microbiology.

Objectives:

- ✓ Describe the Six Sigma organization,
- ✓ Outline lean principles and applications to clinical microbiology, and
- ✓ Describe how lean principles can be integrated into the clinical microbiology laboratory.

**GERALD HARMON MT(ASCP)**

Manager  
Quest Diagnostics Inc.  
Seattle, WA

**Sponsor: Quest Diagnostics**

## ***Interested in joining ASCLS?***

You can get member rates for this meeting!

All new members have the opportunity to join ASCLS and receive 15 months for the price of 12. You can go to [www.ascls.org](http://www.ascls.org) and click on "Join ASCLS" in the box to the left. There you will find the New Member Application. If you join through the ASCLS website **March 1, 2014 or later**, you will get a membership through July 31, 2015. By joining through the ASCLS website, you will have your member number mailed to you immediately. No waiting for snail mail.

# OR

You can obtain a membership application at the following URL:

<http://www.ascls.org>

Remember that you have to be a **new member** and join after **March 1, 2014** to get the 15 months for the price of 12.

The 2014 Spring Seminar Program, registration form and any updates are available on the Internet at the following URL

[www.asclswa.org](http://www.asclswa.org)

**Spring Seminar tab**

All information will be provided at this site. There is a registration form that you can print and mail with a check. Also, at this site there is a link to an online form that you can complete and pay using a credit card.

# Registration General Information

## To Register by Mail:

Complete the registration form and mail the registration form and check payable to **Spring Seminar** to:

2014 ASCLS-WA Spring Seminar  
Brenda Kochis  
44 West 26th Avenue  
Spokane, WA 99203-1818

If questions:

Contact: [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net) (email contact is preferred)  
Phone: 509-939-8445 (leave message) Call before 8 pm please.

- » **Registration mail postmark by date: April 7, 2014.** This assures that your form will be delivered in time for us to provide you with the handout access information.

## To Register Online:

Go to [www.asclswa.org](http://www.asclswa.org) and click on the **Spring Seminar** tab. Click on **“Online Registration”** to go to the online form. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by April 18, 2014 to receive lunch if eligible.
- **Lunch** is provide for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Institution Group Registration:** Please contact Brenda at [BrenKoch@comcast.net](mailto:BrenKoch@comcast.net) if you wish to register a group and use a credit card.
- **Hotel reservations:** See page 2 for information. Please call the hotel for reservations. Mention “ASCLS” to get the seminar rates. Rates will be available until April 11, 2014 after which it will revert to standand hotel rates.
- **No “Spring Seminar” Registration refunds** will be issued.
- **Fees are by session.** Each session is 3 hours (half day). Please register for the membership category that you qualify for. More information about fee categories are on the website at [www.asclswa.org](http://www.asclswa.org) tab: Spring Seminar.

# Registration Form

2014 ASCLS-WA Spring Seminar  
 April 24 - 26, 2014  
 Spokane, WA

*Online registration and credit card payment is available at  
[www.asclswa.org/SpringSeminar.html](http://www.asclswa.org/SpringSeminar.html)  
 or  
 Mail this form with a check.*

First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip \_\_\_\_\_  
 Day Phone \_\_\_\_\_ Evening Phone \_\_\_\_\_  
 Institution \_\_\_\_\_  
 City/State \_\_\_\_\_  
 Email Address \_\_\_\_\_

Are you willing to serve as a session moderator?  Yes  No

***Circle the sessions  
 you will be attending.***

Thursday, April 24	AM	1	2	3	4
	PM	5	6	7	8
Friday, April 25	AM	9	10	11	12
	PM	13	14	15	16
Saturday, April 26	AM	17	18	19	20
	PM	21	22	23	

Category	# Sessions	Fee/session	Total Fee
<b>ASCLS/AMT Professional/Technical</b> .....		\$45.00	\$
ASCLS # _____ AMT # _____			
<b>Special Member</b> .....		\$60.00	\$
___AABB ___AACC ___ASC ___ASCT ___CLMA ___ASM ___ASH ___ASCP Member number _____			
<b>Non-Member</b> .....		\$80.00	\$
<b>Phlebotomist</b> .....		\$35.00	\$
<b>Student</b> .....		\$25.00	\$
<b>Total Fee</b> .....			\$

Mail with check to  
**2014 Spring Seminar**  
**Brenda Kochis**  
**44 West 26th Avenue**  
**Spokane, WA 99203**

Full payment in U.S. Dollars must accompany each mailed in  
 registration. Make check payable to **Spring Seminar**  
 Mail by April 7 to assure timely arrival

**OR**

Online registration with credit card payment is available at  
[www.asclswa.org/SpringSeminar.html](http://www.asclswa.org/SpringSeminar.html)